

THE PORT AUTHORITY  
OF NY & NJ



ORIGINAL SIGNED & SEALED BY  
N.Y. P.E. (OR R.A.)

**Joseph R. Loring  
& Associates, Inc.**  
consulting engineers  
One Pennsylvania Plaza  
New York, New York 10048-5045  
Tel: 212 512-7400, Fax: 212 512-7382

THE OFFICE OF  
**DAVID  
ELLIOT  
LEBOWITZ**  
P.C.  
STRUCTURAL ENGINEERS  
100 EAST 42ND STREET  
NEW YORK, NY 10017-2499  
TEL: 212 697-8800 FAX: 212 697-8801

**LESLIE E. ROBERTSON  
ASSOCIATES, R.L.P.**  
CONSULTING STRUCTURAL ENGINEERS  
200 EAST 42ND STREET  
NEW YORK, NY 10017-2499  
TEL: 212 697-8800 FAX: 212 697-8801

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT  
COPY OF ONE OF THE CONTRACT DRAWINGS CON-  
STITUTING A PART OF CONTRACT NO. **WTC-945071**  
IN THE FIRM IN WHICH SAID DRAWINGS EXISTED AT  
THE TIME THE SAID CONTRACT WAS EXECUTED BY  
THE PARTIES.  
DATE **11/10/98** **Sultan A. Aslam** SPEC. WRITER  
DATE **11/10/98** **P.K. Sharma** ENGINEER OF DESIGN

11/17/97 ISSUED FOR BID

No. Date Revision Approved

Engineering Department  
Design Divisions

**The  
World  
Trade  
Center**

STANDBY POWER  
5 WORLD TRADE CENTER

STRUCTURAL

5 WTC BULKHEAD  
SECTIONS & DETAILS

This drawing subject to conditions in contract.  
All inventions, ideas, designs and methods  
herein are reserved to Port Authority and  
may not be used without its written consent.

MYB CAP RZ  
Designed by Drawn by Checked by

Date Scale  
11/17/97 NTS

Contract Number Drawing Number  
**WTC-945071 S2-05**

